

FIG. 1

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Mail # EL923484765US
Jacquelyn Campbell

Print Name

Signature

February 28, 2002

Date

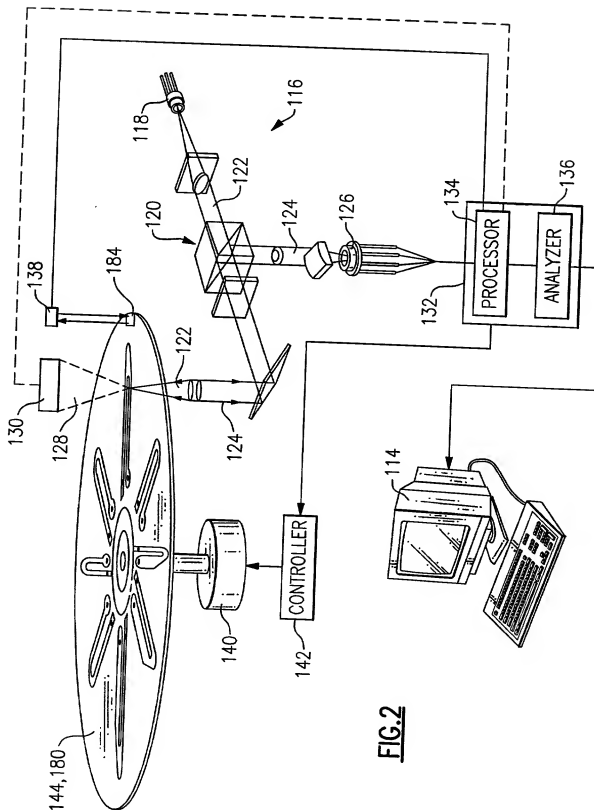
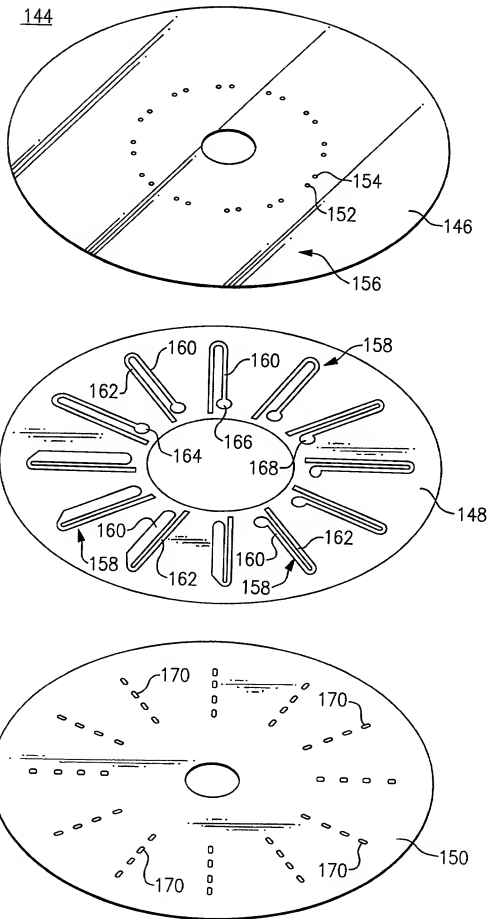


FIG. 2

208220-61528001

FIG.3A



208220-64578001

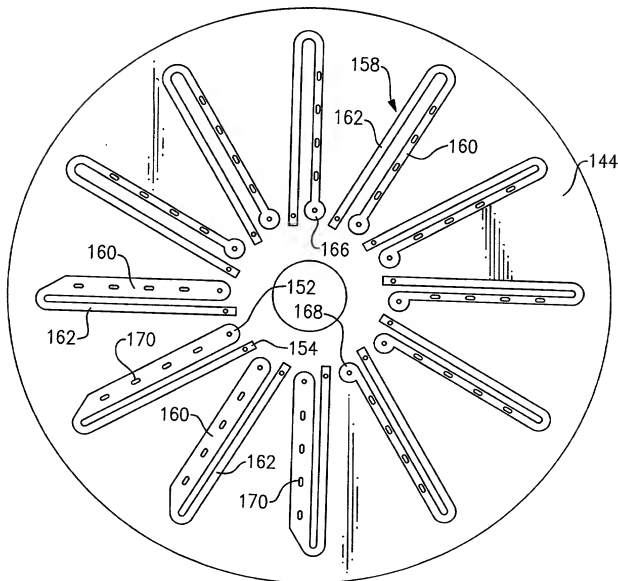


FIG.3B

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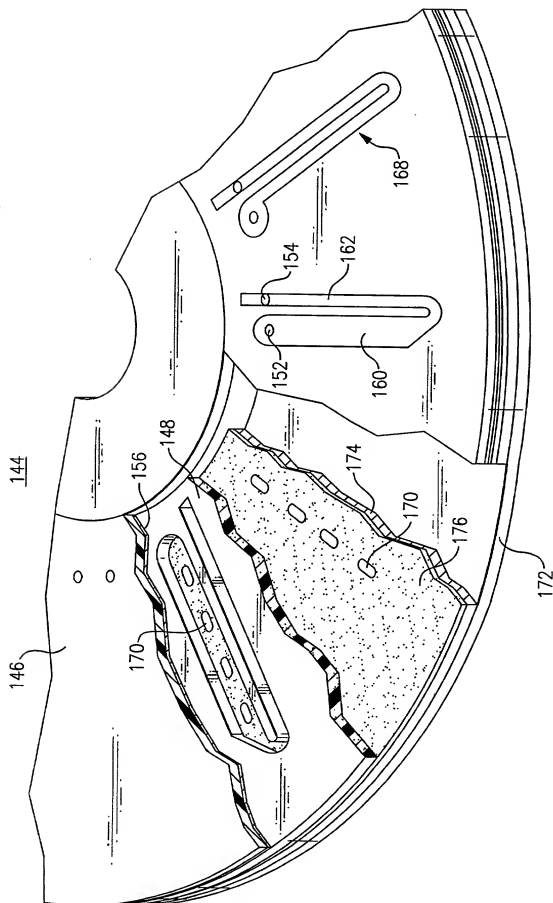
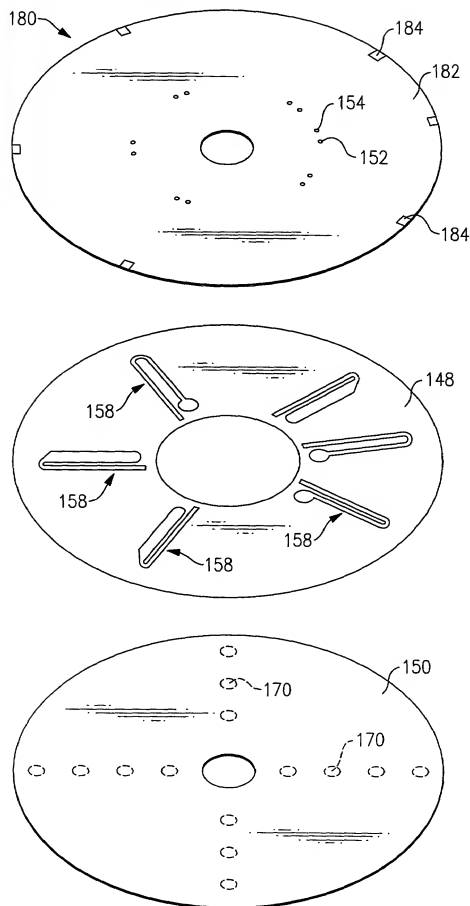


FIG. 3C

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FIG. 4A



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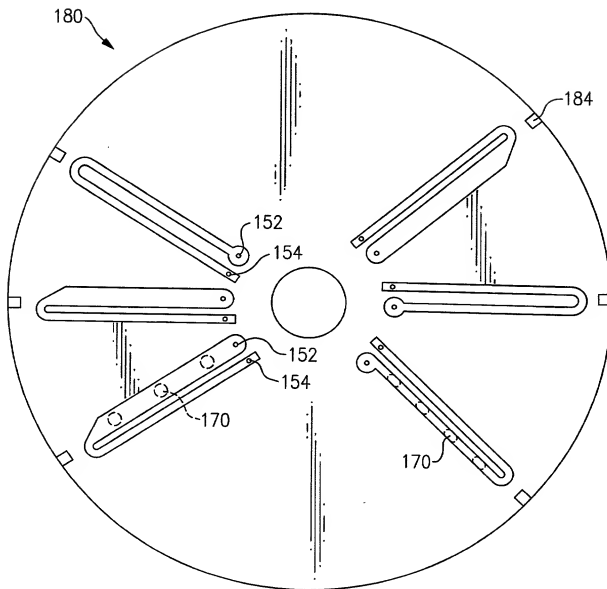


FIG. 4B

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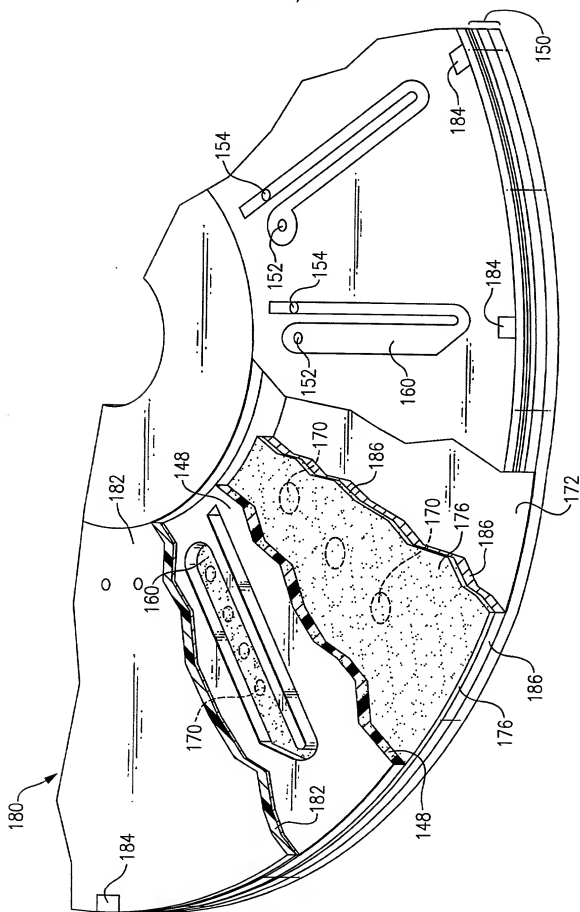


FIG. 4C

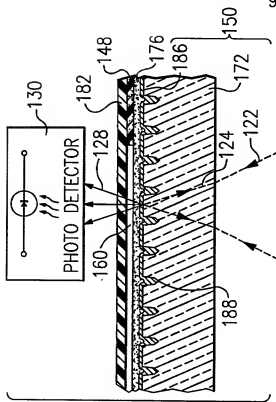


FIG. 5B

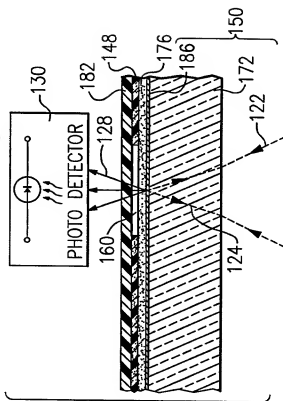


FIG. 6B

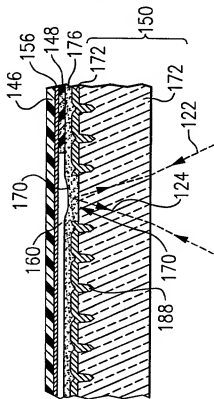


FIG. 5A

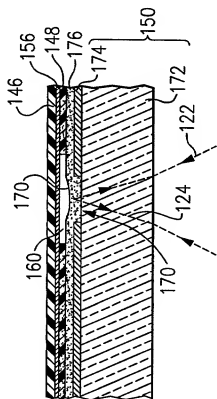


FIG. 6A

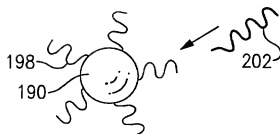


FIG. 7A

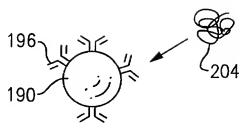


FIG. 7B



FIG. 8A

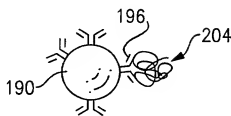


FIG. 8B

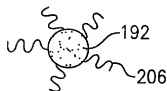


FIG. 9A

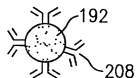


FIG. 9B

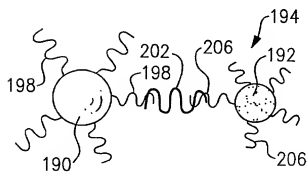


FIG. 10A

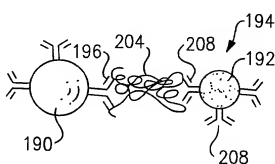


FIG. 10B

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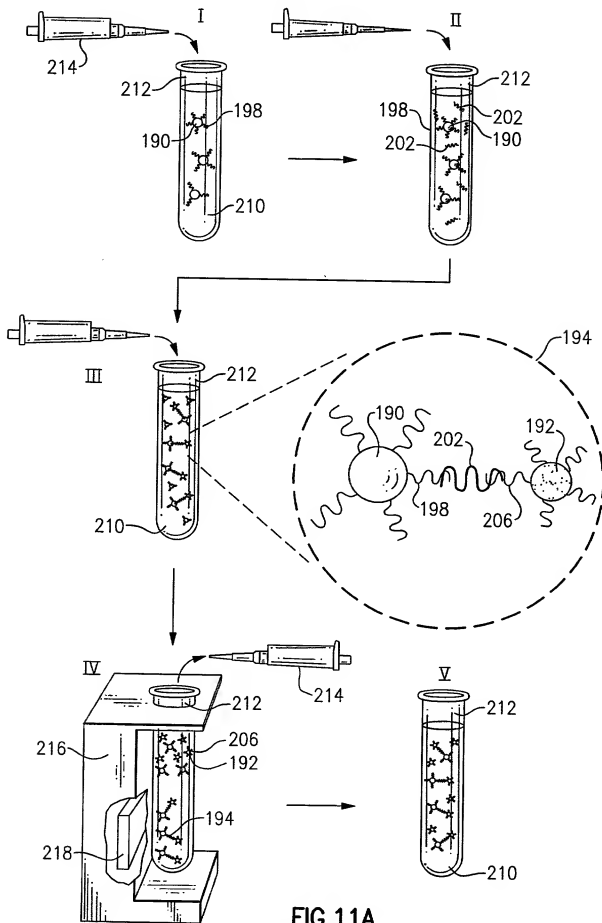


FIG. 11A

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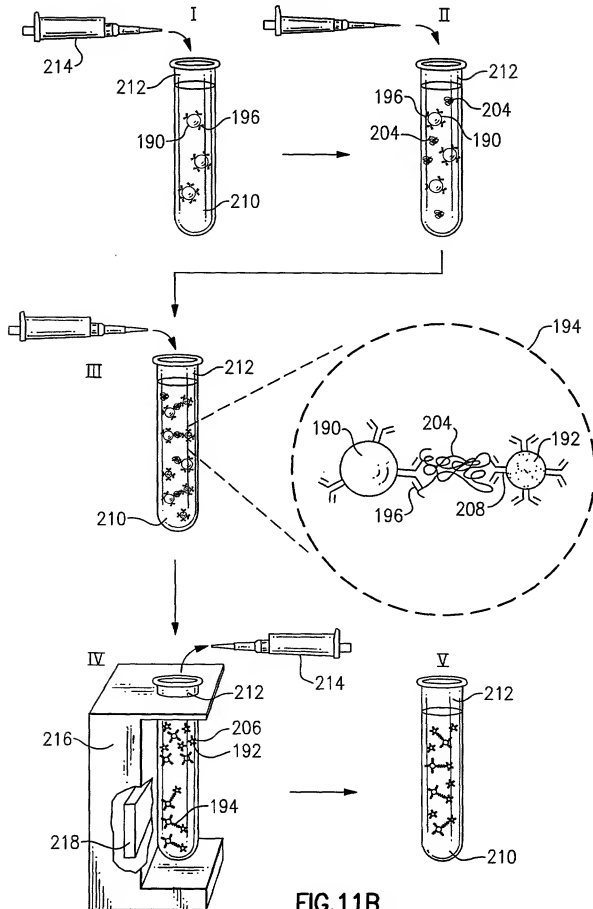


FIG. 11B

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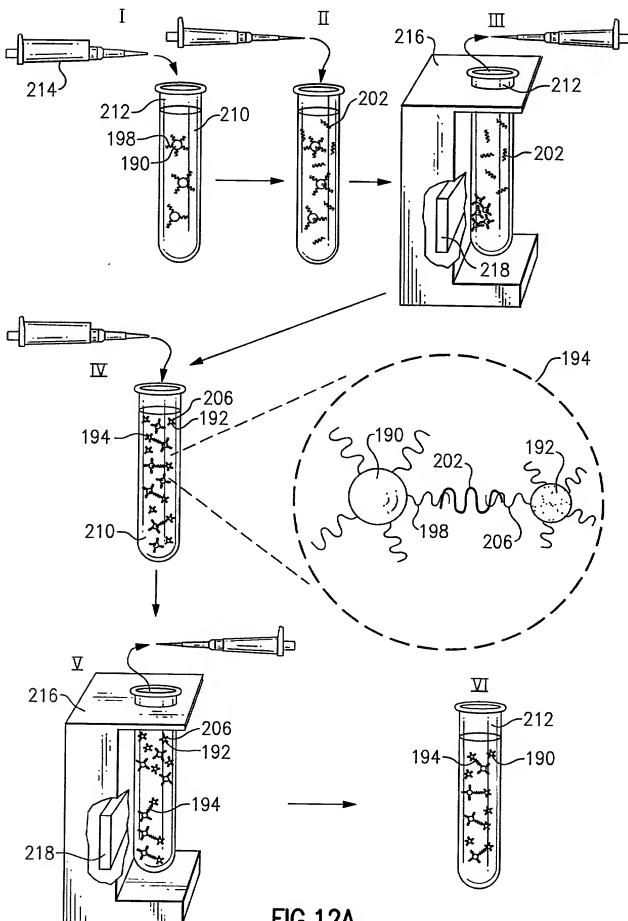


FIG. 12A

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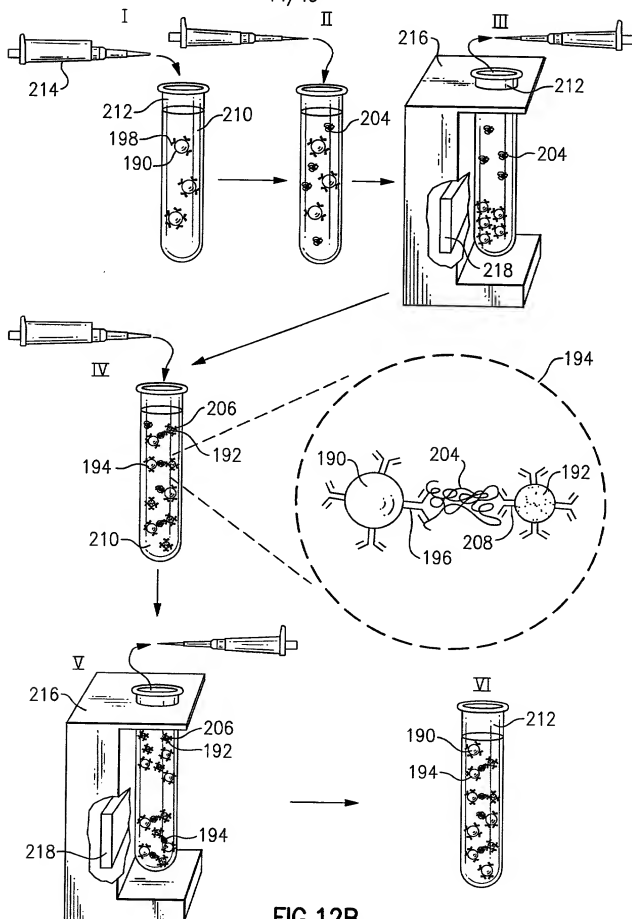


FIG. 12B

10087549.022802

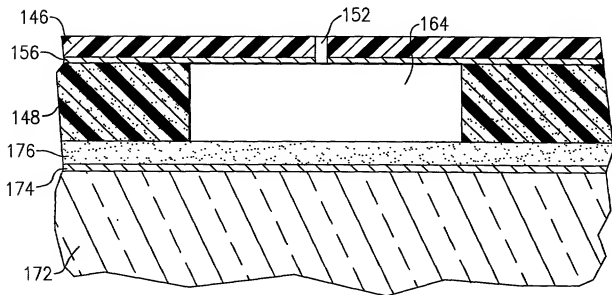


FIG. 13

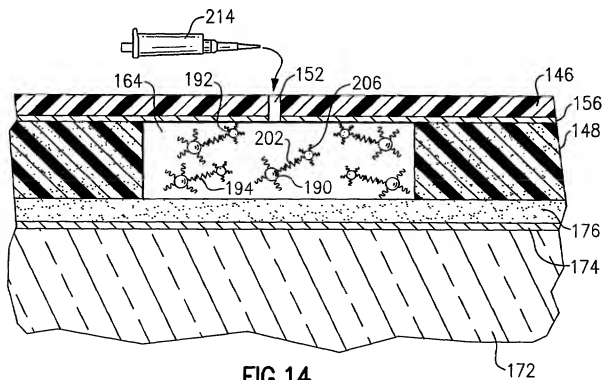


FIG. 14

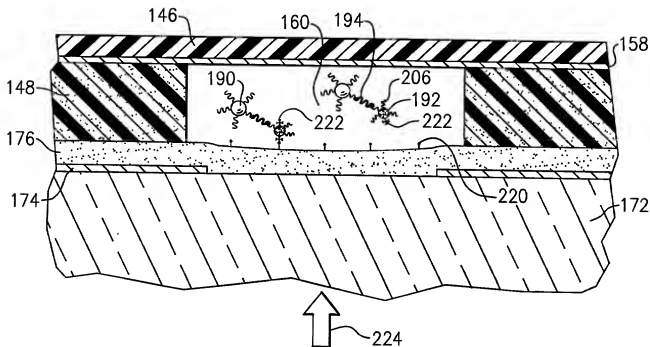


FIG. 15A

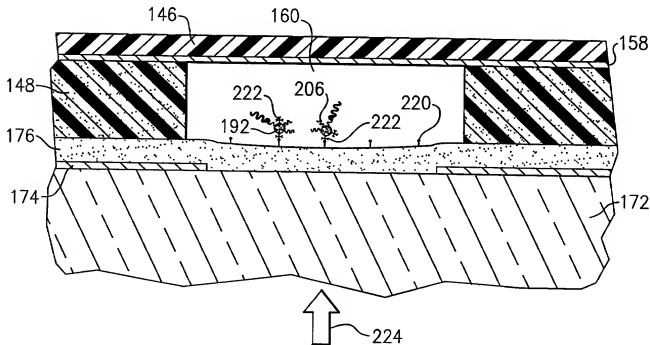


FIG. 15B

A cross-sectional view of a device assembly 224. The assembly includes a top layer 146, a middle layer 160, and a bottom layer 172. A central region 190 is defined by a dashed line 194. This region contains two sets of components: a first set 206 and a second set 222. The first set 206 includes a component 192, and the second set 222 includes a component 206. The assembly is flanked by two side regions 156 and 148, which are separated by a vertical boundary 176. A large upward-pointing arrow 224 is located below the assembly.

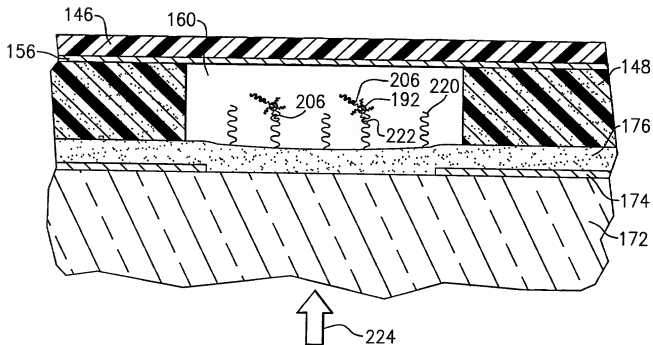


FIG. 16B

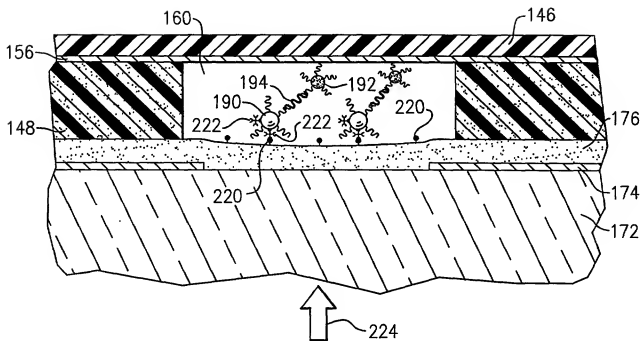


FIG. 17

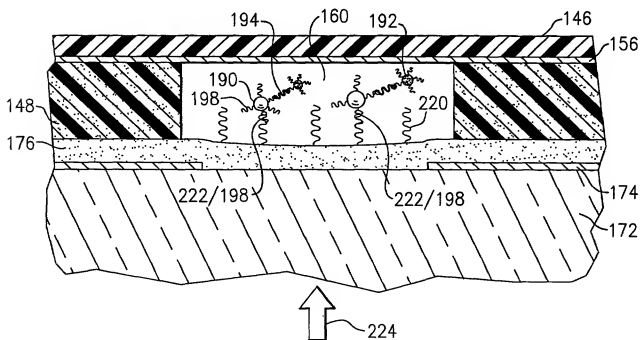


FIG. 18

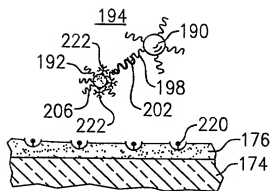


FIG. 19A

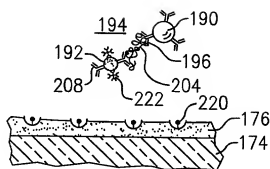


FIG. 20A

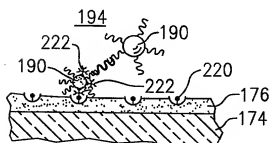


FIG. 19B

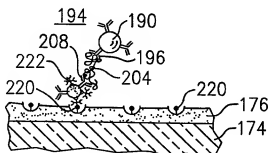


FIG. 20B

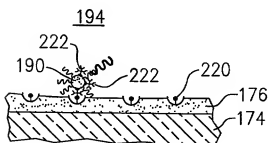


FIG. 19C

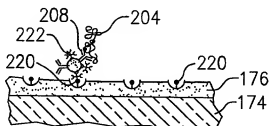


FIG. 20C

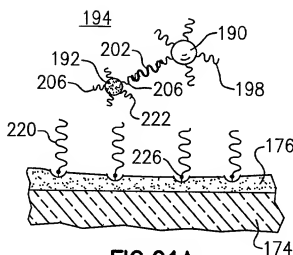


FIG. 21A

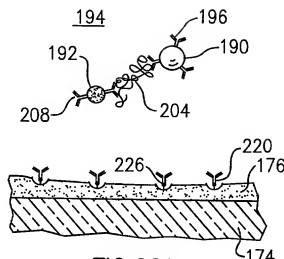


FIG. 22A

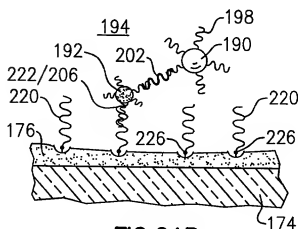


FIG. 21B

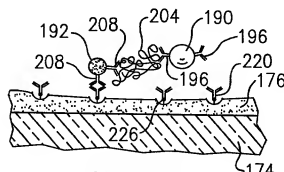


FIG. 22B

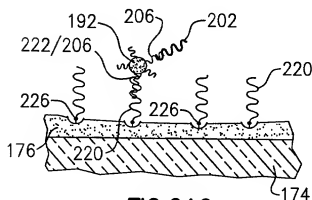


FIG. 21C

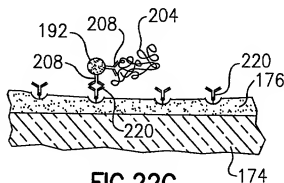


FIG. 22C

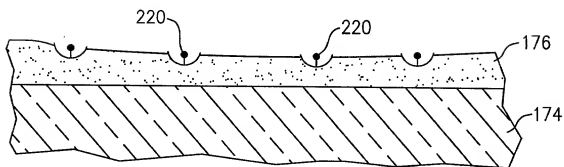
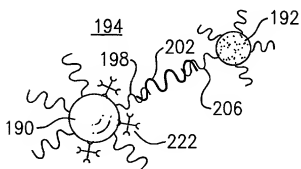


FIG.23A

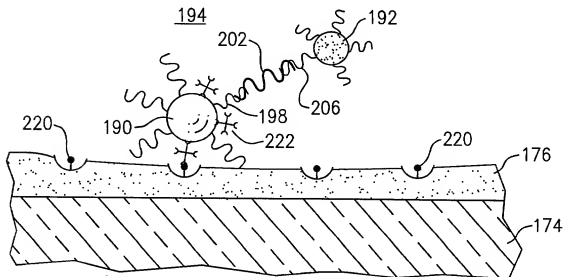


FIG.23B

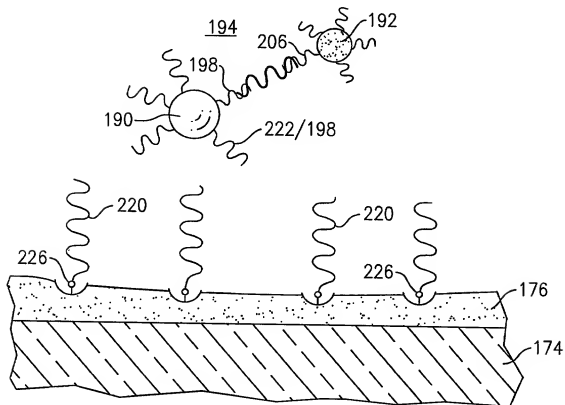


FIG. 24A

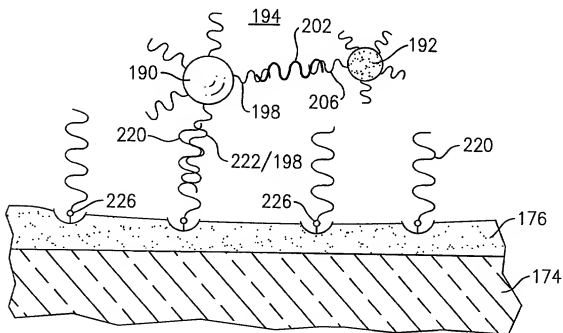
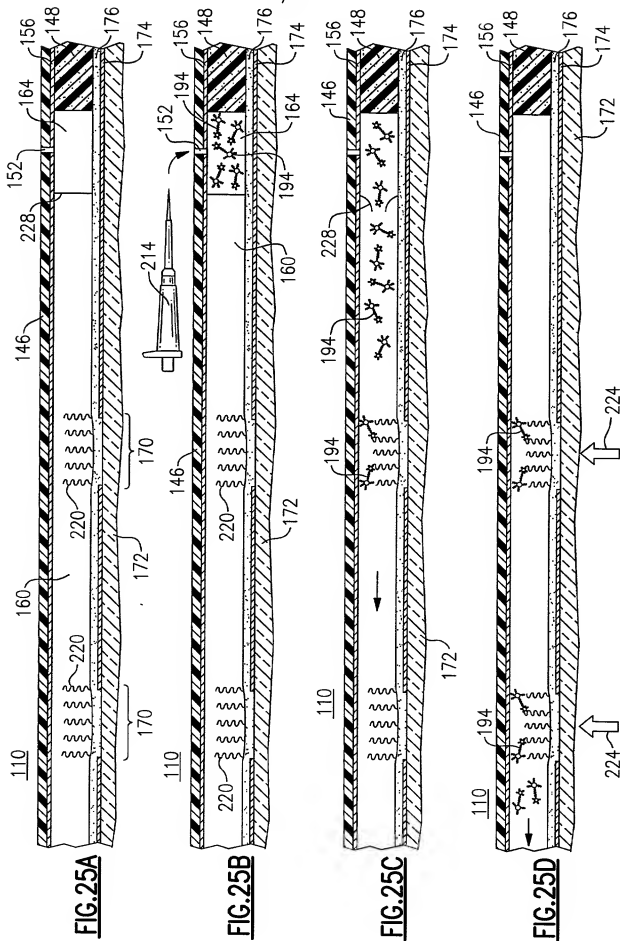


FIG. 24B

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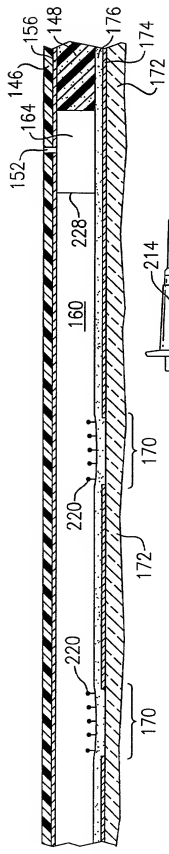


FIG. 26A

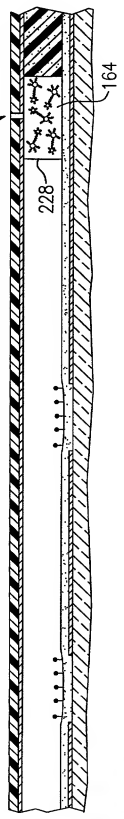


FIG. 26B

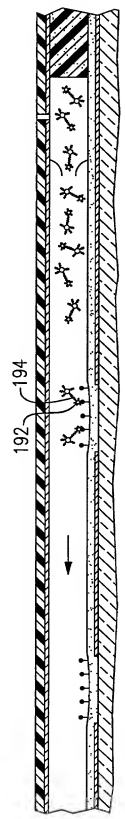


FIG. 26C

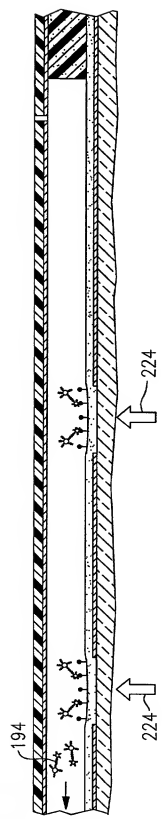


FIG. 26D

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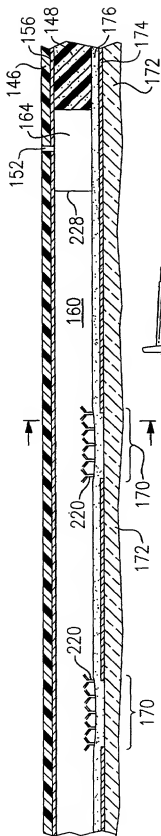


FIG. 27A

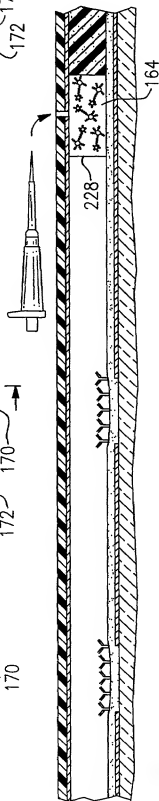


FIG. 27B

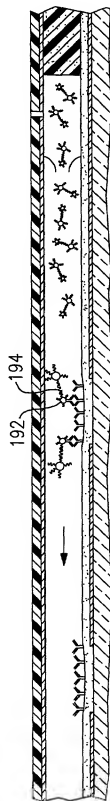


FIG. 27C

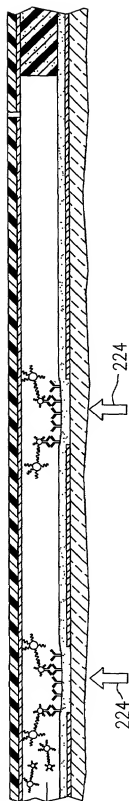


FIG. 27D

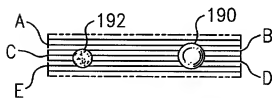


FIG.28A

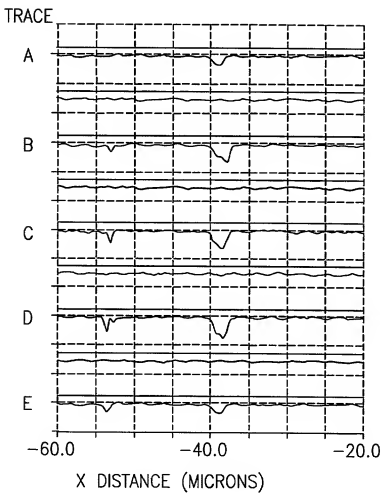


FIG.28B

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FIG.29A

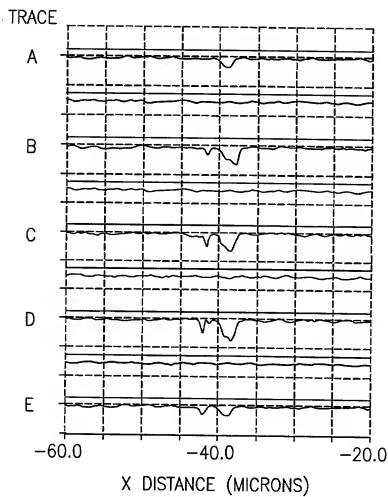
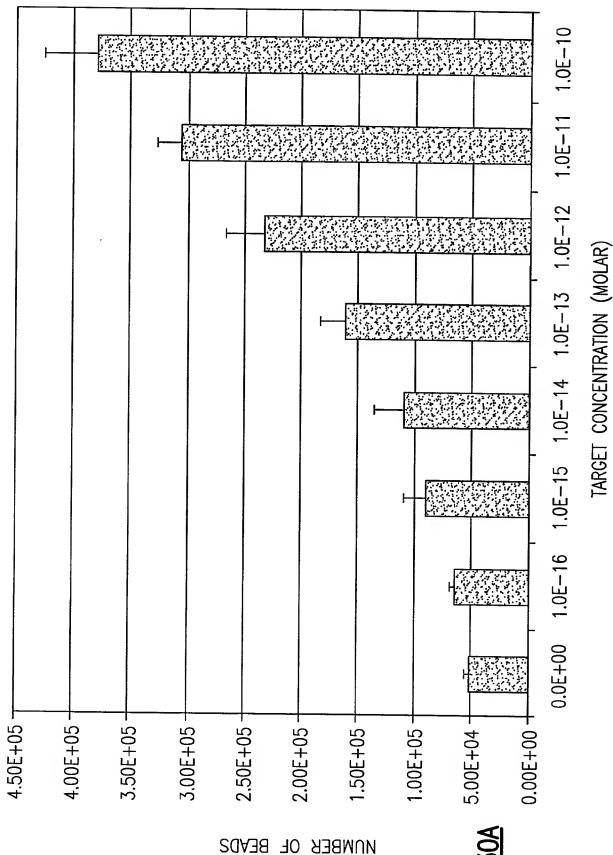


FIG.29B

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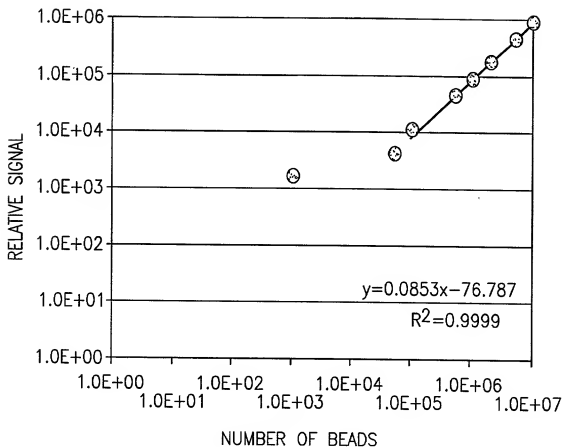


FIG.30B

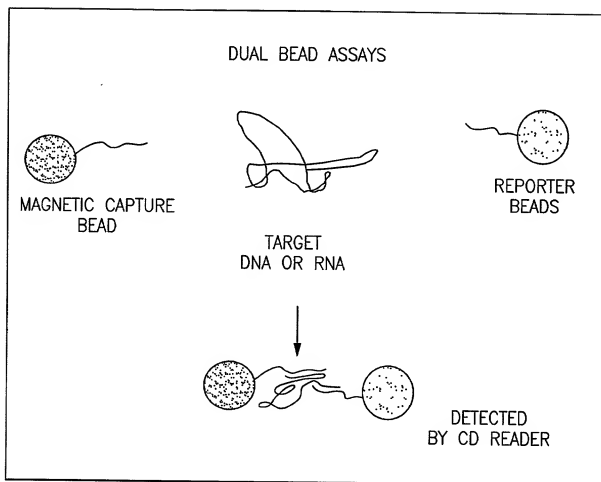


FIG.30C

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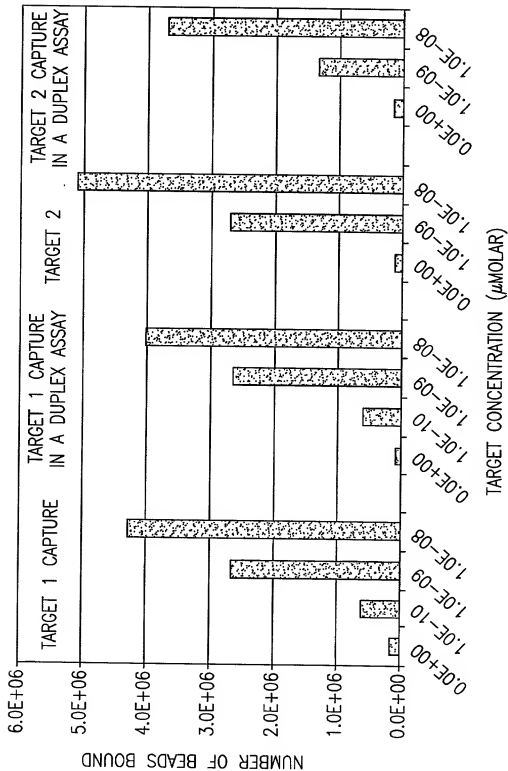


FIG.31

DUAL BEAD ASSAY MULTIPLEXING

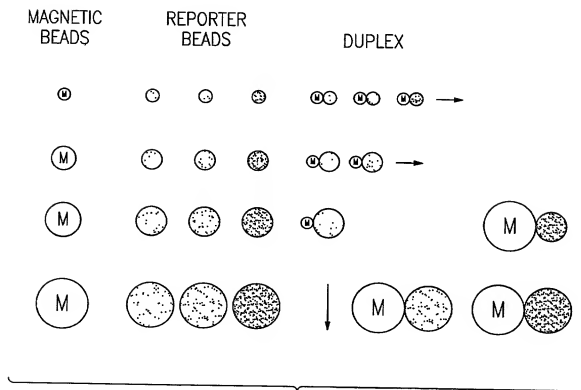
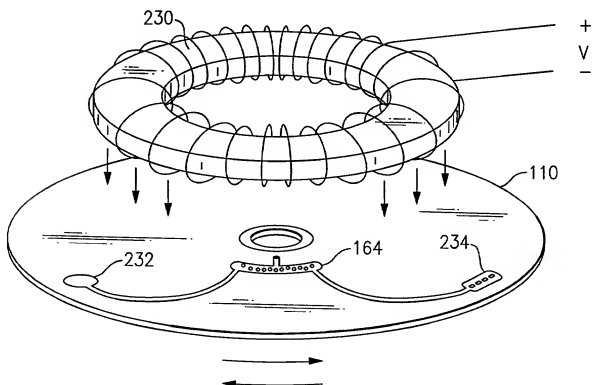
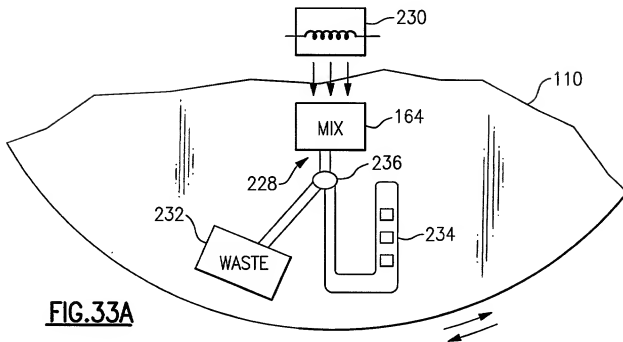


FIG.32

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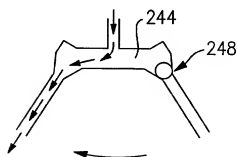
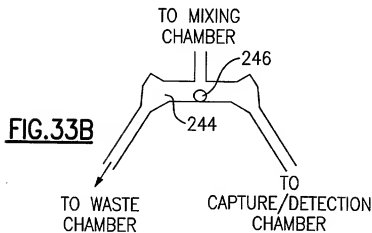


FIG.33C

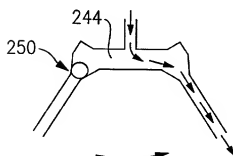


FIG.33D

FIG.34A

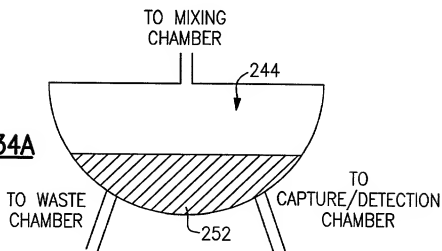


FIG.34B

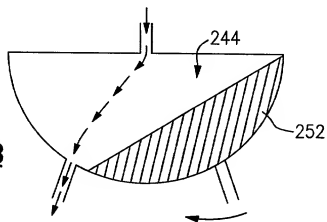
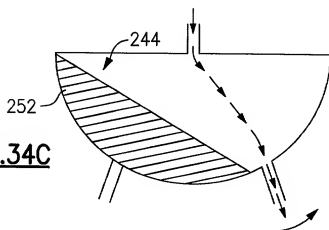


FIG.34C



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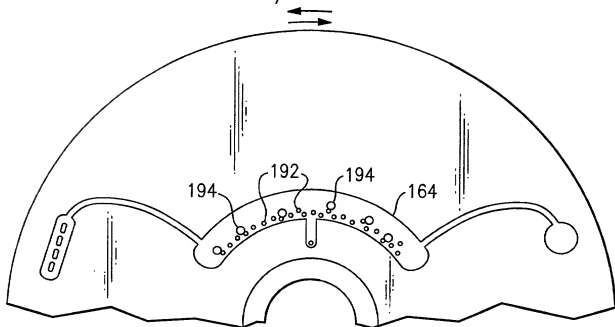


FIG. 36A

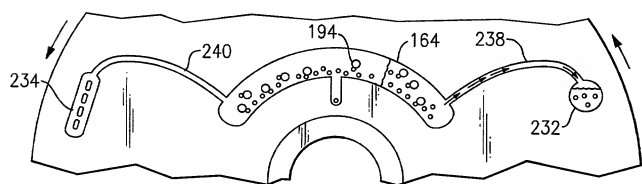


FIG. 36B

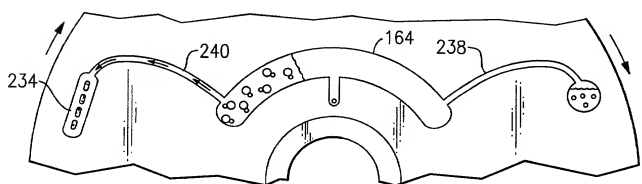


FIG. 36C

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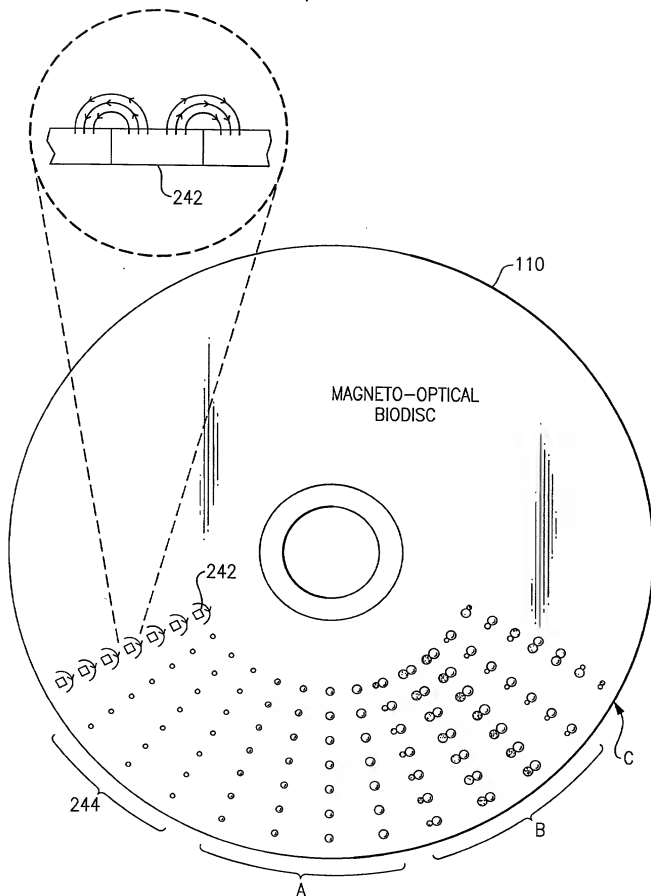


FIG. 37

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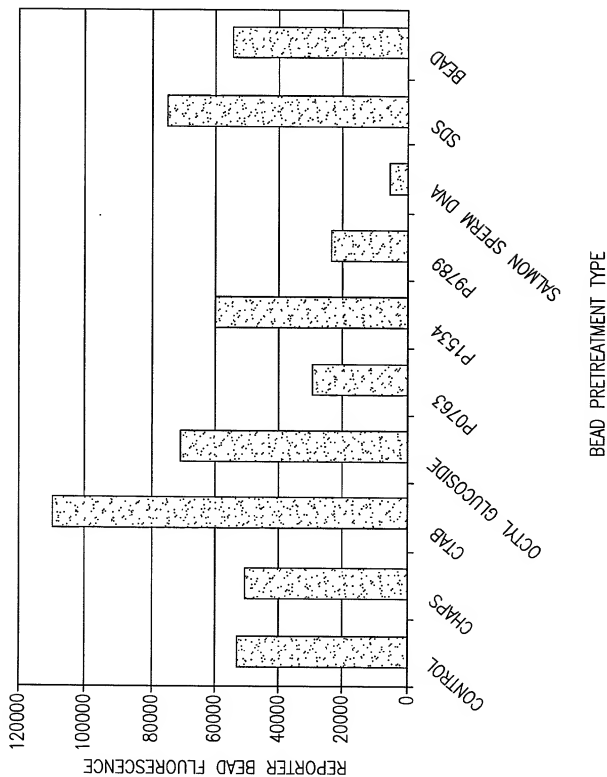


FIG.38

208220-64578001

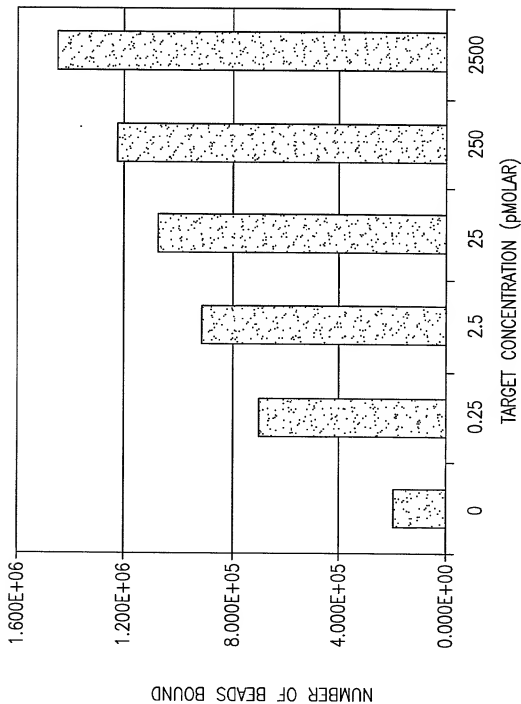


FIG.39

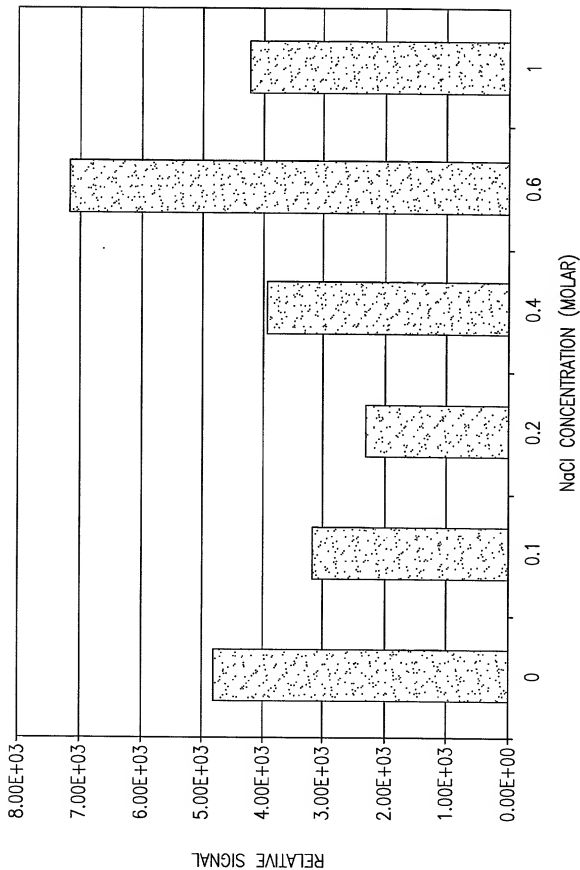


FIG. 40

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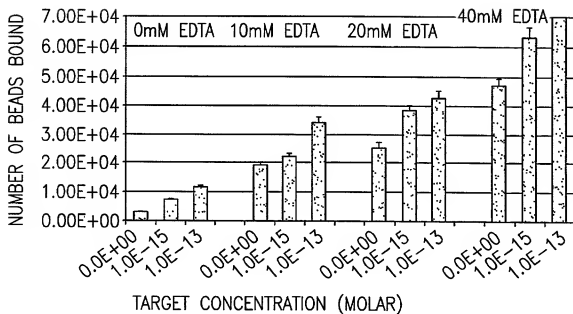


FIG.41

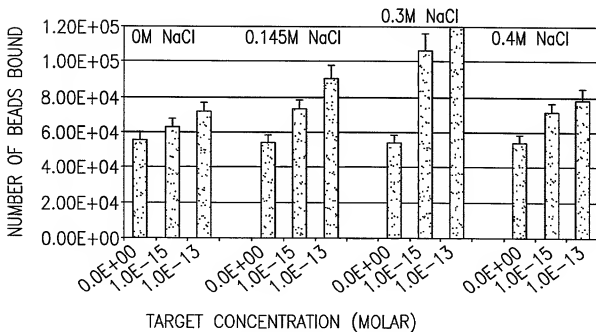


FIG.42

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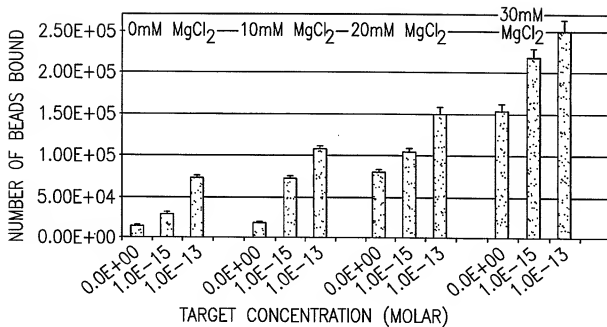


FIG.43A

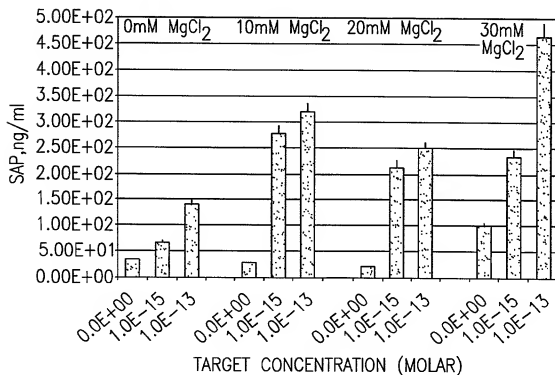


FIG.43B

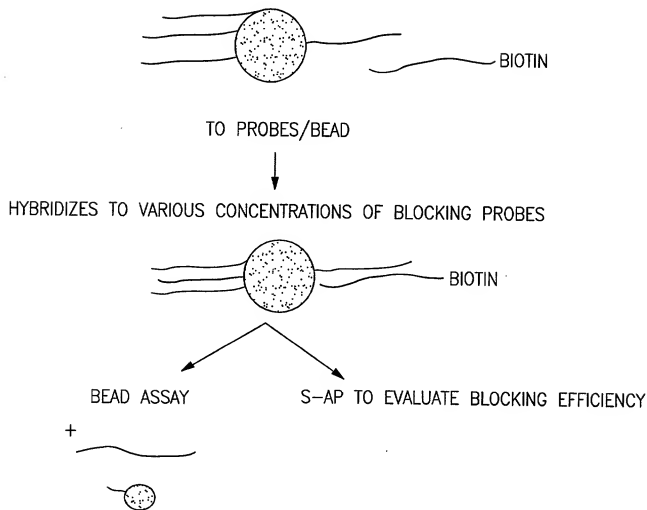


FIG.44

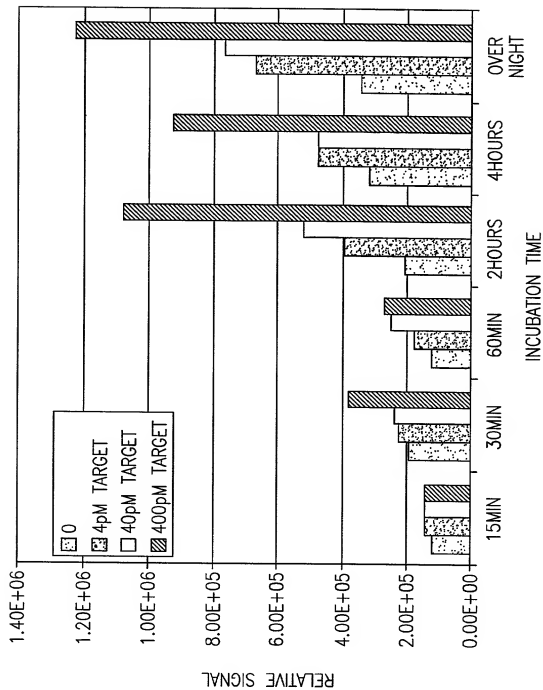


FIG.45

